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XA-9544 PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE In re the Application of: Sakae MATSUMOTO et al. Appln. No.: 09/936,564 Group Art Unit: 3682 Filed: September 14, 2001 Examiner: B. Van Pelt For: COUPLING STRUCTURE OF EXTENSIBLE SHAFTS

\* \* \*

**REQUEST FOR CORRECTED FILING RECEIPT** 

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

The official filing receipt and the Notice of Acceptance (copies attached) show the filing date of the underlying international application as March 26, 2001.

It is respectfully requested that these documents be corrected, as shown in red on the accompanying copies, to indicate the international filing date as <u>January 26, 2001</u>. See the attached cover sheet from the published international application

Respectfully submitted,

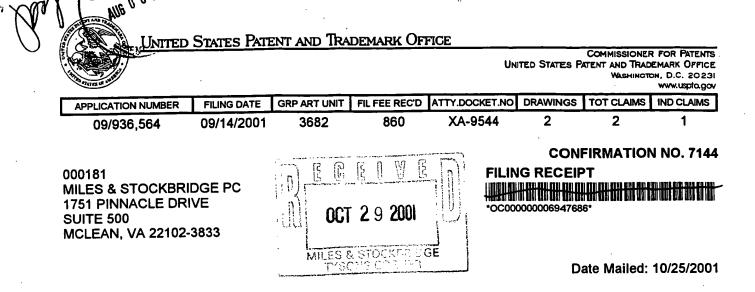
Mitchell W. Shap

Reg. No. 31,568

MWS: 1mb

Miles & Stockbridge P.C. 1751 Pinnacle Drive, Suite 500 McLean, Virginia 22102 (703) 903-9000 August 8, 2003





Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

#### Applicant(s)

Sakae Matsumoto, Gunma-ken, JAPAN; Tadashi Hibino, Gunma-ken, JAPAN; Takeshi Negishi, Gunma-ken, JAPAN; Satoshi Onozato, Gunma-ken, JAPAN;

#### Domestic Priority data as claimed by applicant

THIS APPLICATION IS A 371 OF PCT/JP01/00532-03/26/2001 01 00 00

Foreign Applications

JAPAN 2000-019049 01/27/2000

Projected Publication Date: To Be Determined - pending completion of Security Review

Non-Publication Request: No

Early Publication Request: No

Title

Connection structure of extendable shaft

#### Preliminary Class

074

## LICENSE FOR FOREIGN FILING UNDER Title 35, United States Code, Section 184 Title 37, Code of Federal Regulations, 5.11 & 5.15

#### GRANTED

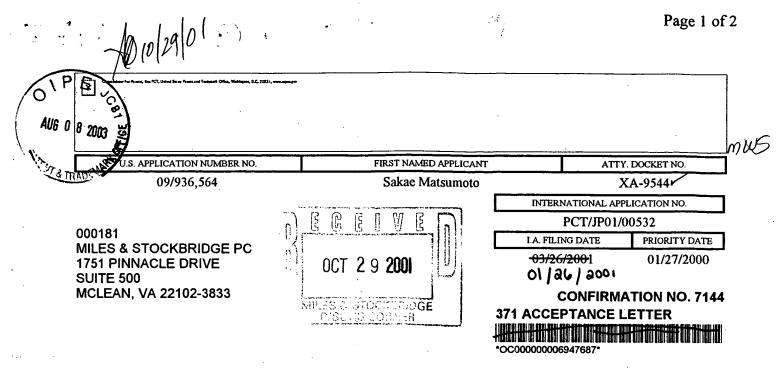
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Date Mailed: 10/25/2001

## NOTICE OF ACCEPTANCE OF APPLICATION UNDER 35 U.S.C 371 AND 37 CFR 1.494 OR 1.495

The applicant is hereby advised that the United States Patent and Trademark Office in its capacity as a Designated Office (37 CFR 1.494), has determined that the above identified international application has met the requirements of 35 U.S.C. 371, and is ACCEPTED for national patentability examination in the United States Patent and Trademark Office.

The United States Application Number assigned to the application is shown above and the relevant dates are:

### <u>09/14/2001</u> DATE OF RECEIPT OF 35 U.S.C. 371(c)(1), (c)(2) and (c)(4) REQUIREMENTS

09/14/2001 DATE OF RECEIPT OF ALL 35 U.S.C. REQUIREMENTS

A Filing Receipt (PTO-103X) will be issued for the present application in due course. THE DATE APPEARING ON THE FILING RECEIPT AS THE "FILING DATE" IS THE DATE ON WHICH THE LAST OF THE 35 U.S.C. 371 REQUIREMENTS HAS BEEN RECEIVED IN THE OFFICE. THIS DATE IS SHOWN ABOVE. The filing date of the above identified application is the international filing date of the international application (Article 11(3) and 35 U.S.C. 363). Once the Filing Receipt has been received, send all correspondence to the Group Art Unit designated thereon.

The following items have been received:

- U.S. Basic National Fee
- Copy of references cited in ISR
- Copy of the International Application
- Copy of the International Search Report
- Information Disclosure Statements
- Oath or Declaration

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

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KAYA L LEWIS BALTIMORE Telephone: (703) 305-3695

PART 1 - ATTORNEY/APPLICANT COPY

#### (19) 世界知的所有権機関 国際事務局



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#### (43) 国際公開日 2001 年8 月2 日 (02.08.2001)

PCT

F16D 3/06

(51) 国際特許分類7:

a. 1

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- 2001年1月26日(26.01.2001) (22) 国際出願日:
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- (30) 優先権データ: 2000年1月27日(27.01.2000) 特願2000-19049 JP
- (71) 出願人 (米国を除く全ての指定国について): 日本精 工株式会社 (NSK LTD.) [JP/JP]; 〒141-8560 東京都品 川区大崎1丁目6番3号 Tokyo (JP).
- (72) 発明者;および

(75) 発明者/出願人 (米国についてのみ): 松本 栄 (MAT-SUMOTO, Sakae) [JP/JP]. 小野里智 (ONOZATO,

## (10) 国際公開番号 WO 01/55610 A1

Satoshi) [JP/JP]; 〒371-0853 群馬県前橋市総社町1丁 目8番1号 日本精工株式会社内 Gunma (JP). 日比野 正 (HTBINO, Tadashi) [JP/JP]. 根岸武司 (NEGISHI, Takeshi) [JP/JP]; 〒371-0845 群馬県前橋市鳥羽町78 番地 日本精工株式会社内 Gunma (JP).

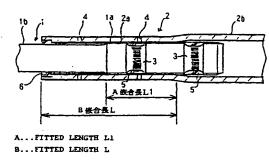
- (74) 代理人: 井上義雄(INOUE, Yoshio); 〒103-0027 東京 都中央区日本橋3丁目1番4号 画廊ビル3階 Tokyo (JP).
- (81) 指定国 (国内): DE, GB, US.

添付公開書類: 国際調査報告書

2文字コード及び他の略語については、 定期発行される 各PCTガゼットの巻頭に掲載されている「コードと略語 のガイダンスノート」を参照。

#### (54) Title: CONNECTION STRUCTURE OF EXTENDABLE SHAFT

(54) 発明の名称:伸縮自在シャフトの結合構造



(57) Abstract: A connection structure of extendable shaft, wherein resin is filled in recessed grooves (3) formed in a male splinefitted part (1a) of an inner shaft (1) through filling holes (4) formed in a female spline-fitted part (2a) of an outer shaft (2) so as to form resin sliding parts (5) at these fitted parts (1a) and (2a) of these both shafts (1) and (2), and a resin ring (6) is installed on the inner peripheral surface of the outer shaft (2) at the tip of the female spline-fitted part (2a), whereby the tip part of the outer shaft (2) can be moved smoothly forward of a vehicle because the resin ring (6) slides on the outer peripheral surface of the small diameter part (1b) of the inner shaft (1) even if the tip part of the outer shaft (2) comes off from of the male spline-fitted part (1a) of the inner shaft (1) at the time of collapse by a secondary collision. ≥

### INTERNATIONAL SEARCH REPORT

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International application No.

## PCT/JP01/00532

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl <sup>7</sup> F16D3/06									
According to International Patent Classification (IPC) or to both national classification and IPC									
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols)									
Int.Cl <sup>7</sup> F16D3/06									
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched									
Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Koho 1994-2001 Kokai Jitsuyo Shinan Koho 1971-2001 Jitsuyo Shinan Toroku Koho 1996-2001									
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)									
C. DOCUM	MENTS CONSIDERED TO BE RELEVANT								
Category*	Citation of document, with indication, where app		Relevant to claim No.						
Y	GB, 002316150, A (Kabushiki Kais 18 February, 1998 (18.02.98), Fig. 8,	sna Yamada Selsakusno),	1,2						
	& JP, 10-45006, A (Yamada Seisa	kusho et al.)							
Y	JP, 5-185511, A (Gunze Limited) 27 July, 1993 (27.07.1993),	,	1,2						
	Fig. 2; page 1, left column, lines 32 to 37, (Family: none)								
Y	JP, 10-246369, A (Bridgestone C	orporation),	2						
	14 September, 1998 (14.09.98), Fig. 1; page 2, right column, 1 (Family: none)	ines 5 to 31,							
	· ·								
Furthe	r documents are listed in the continuation of Box C.	See patent family annex.	•						
"A" docum conside	l categories of cited documents: ent defining the general state of the art which is not ered to be of particular relevance document but published on or after the international filing	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be</li> </ul>							
	ent which may throw doubts on priority claim(s) or which is stablish the publication date of another citation or other	considered novel or cannot be considered step when the document is taken alon "Y" document of particular relevance; the	e						
specia "O" docum	reason (as specified) ent referring to an oral disclosure, use, exhibition or other	considered to involve an inventive step when the document is combined with one or more other such documents, such							
	ent published prior to the international filing date but later e priority date claimed	combination being obvious to a perso "&" document member of the same patent	n skilled in the art family						
Date of the	actual completion of the international search April, 2001 (04.04.01)	Date of mailing of the international search report 17 April, 2001 (17.04.01)							
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Facsimile N	ło.	Telephone No.							
Form PCT/ISA/210 (second sheet) (July 1992)									



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Bib Data Sheet

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APPLICANTS Sakae Matsumoto, Gunma-ken, JAPAN; Tadashi Hibino, Gunma-ken, JAPAN; Takeshi Negishi, Gunma-ken, JAPAN; Satoshi Onozato, Gunma-ken, JAPAN; ** CONTINUING DATA **********************************											
B5 USC 119 (a-d) conditions							EETS TOTA WING CLAI 2 2				
ADDRESS 181											
TITLE Connection struct	ture o	f extendable shaft									
RECEIVED	CEIVED No to charge/credit DEPOSIT ACCOUNT				NT	<ul> <li>All Fees</li> <li>1.16 Fees (Filing)</li> <li>1.17 Fees (Processing Ext. of time)</li> <li>1.18 Fees (Issue)</li> <li>Other</li> <li>Credit</li> </ul>					